

Heavy Duty Cam Action

8747/194

Application:

- Suitable for exterior and interior doors
- recommended maximum door width 1400mm, recommended door weight 120kg

Features:

- Adjustable spring power from CEN grades 1-6
- Can be installed to either the door or the door frame
- Two speed control valves
- Backcheck as standard
- Adjustable arm height (14mm maximum)
- Cast aluminium body manufactured from high performance silicon alloy

Specification:

Reference 8747/194

Ordering Code Example:

J - 8747/194 - SIL
(Boxed - Product Code - Finish)

Finishes:

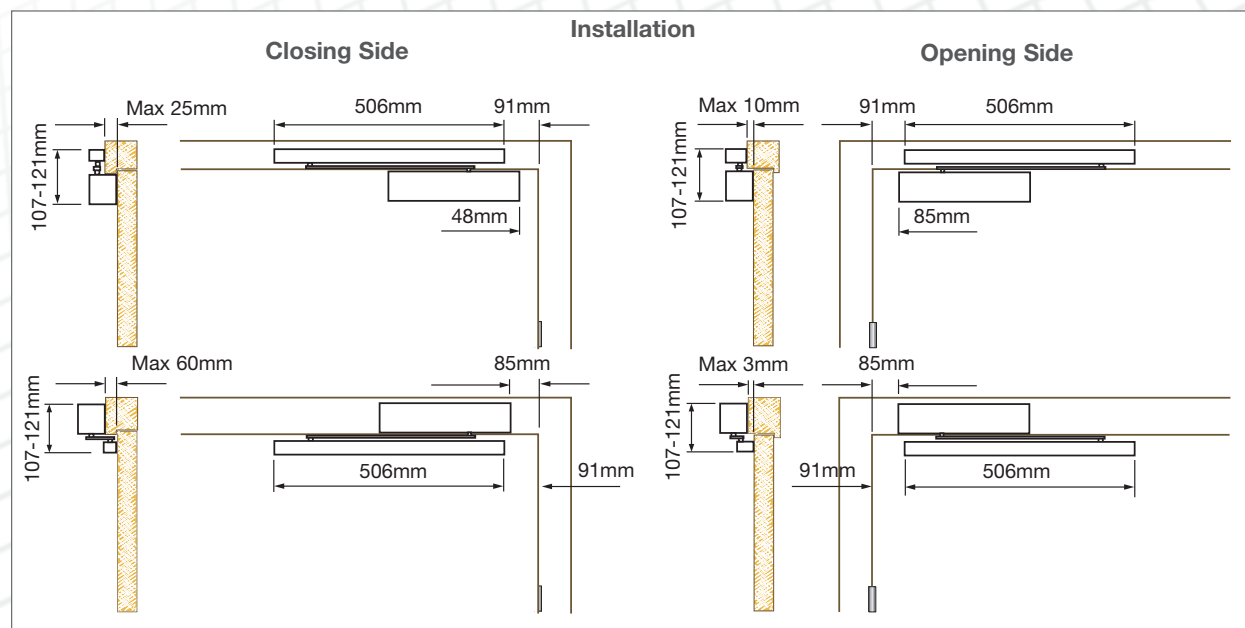
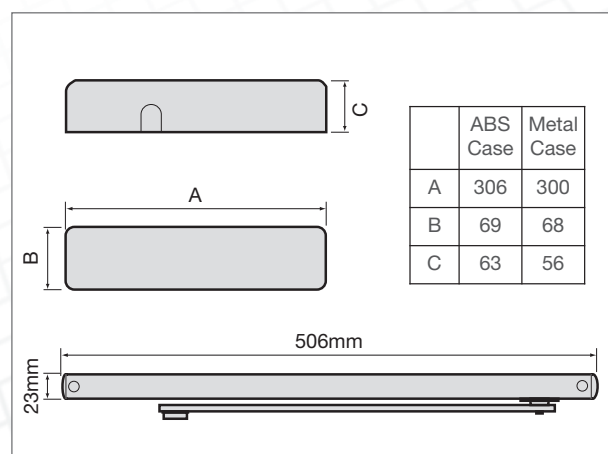
- SIL - ABS Satin Silver
- SS - Stainless Steel

Standards:

- 3rd party tested to EN 1154
- EN 1634

Certificate number: 0432-CPD-0047

3	8	1/6	1	1	3
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Cam Action

8746/194

Application:

- Suitable for exterior and interior doors
- recommended maximum door width 1100mm, recommended door weight 80kg

Features:

- Adjustable spring power from CEN grades 1-4
- Adjustable closing and latching speeds
- Adjustable arm height (maximum 14mm)
- Pressure relief valve to protect against abuse
- Can be installed to either the door or the door frame
- Cast aluminium body manufactured from high performance silicon alloy

Specification:

Reference 8746/194

Ordering Code Example:

J-8746/194-SIL

(Boxed - Product Code - Finish)

Finishes:

- SIL - ABS Satin Silver
- SS - Stainless Steel

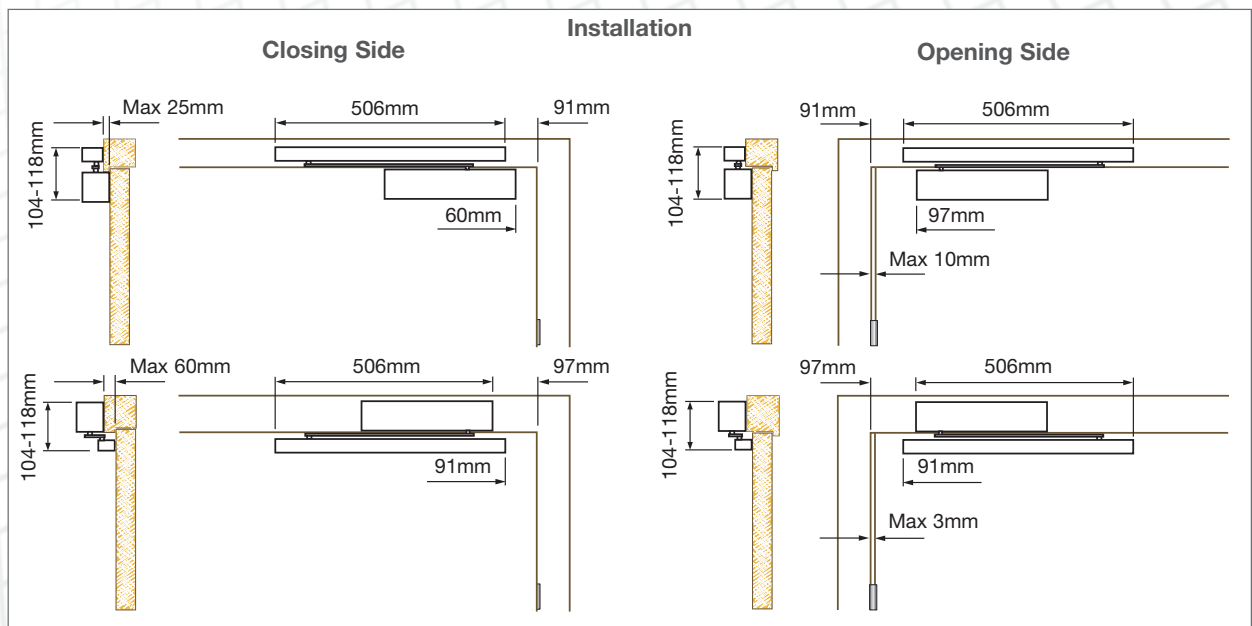
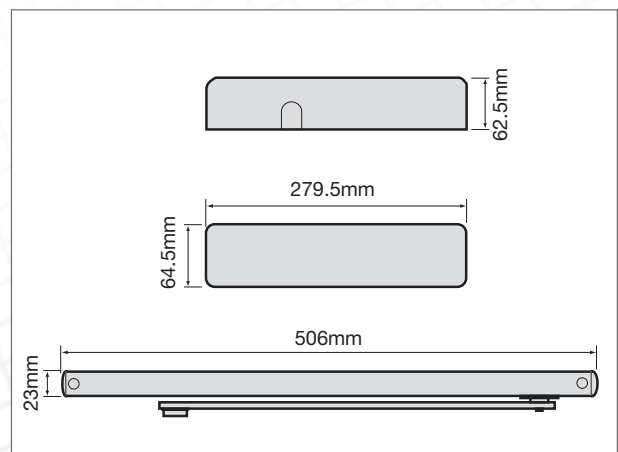
Standards:



- 3rd party tested to EN 1154
- EN 1634

Certificate number: 1162-CPD-0251

3	8	4/1	1	1	3
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Heavy Duty with back check

8726

**Application:**

- Suitable for both heavy interior and exterior doors
- Perfect for doors exposed to conditions of pressure and heavy use - typical applications include schools, supermarkets, offices and other public buildings
- Maximum door weight 120kg, maximum door leaf width 1400mm
- When installed with a sliding arms 8194, the maximum door weight is 80kg and the maximum door leaf width is 1100mm

Features:

- CE certified
- Adjustable class 2-6 closing force according to EN1154 and class 2-6 in ANSI 156.4
- Easy adjustment of arm height (maximum 14mm)
- Separate adjustment of closing and latching speed
- Starting angle for latching can be adjusted
- Adjustable back-check (BC) as a standard feature
- Delayed closing (DC) as an accessory
- Two pressure relief valves to protect against abuse
- Suitable for fire doors with recommended arm 8199
- Operating temperature -35°C to +50°C
- Hold open device 8152 available for use in conjunction with slide arm

Specification:

Reference	8726/199 - Standard Arm
	8726/191 - Hold-open Arm
	8726/194 - Slide Arm

Ordering Code Example:

J-8726/199-SIL

(Boxed - Product Code - Finish)

Finishes:

- SIL - ABS Satin Silver
- B - Brass
- SS - Stainless Steel

Standards:

- EN 1154
- EN 1634

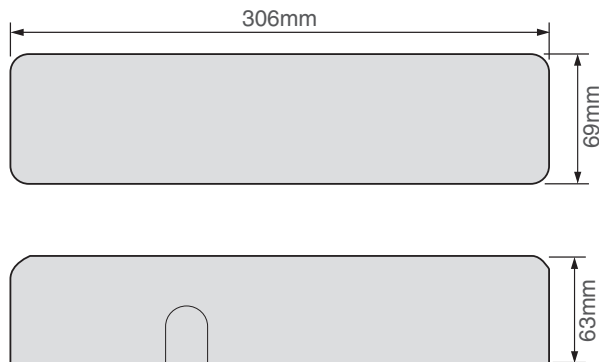
Certificate number: 0432-CPD-0047. Achieves the following classification in Apps.1 & 61

4	8	2/6	1	1	3
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Heavy Duty with back check

8726

Cover Dimensions



Arm height:

The arm height can be adjusted (by a maximum of 14mm) by moving the grooved spindle in a vertical direction

Adjustments:

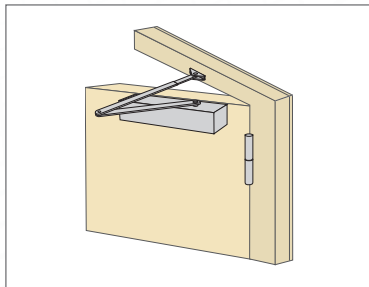
The starting angle for back check, delayed closing and latching speed can be adjusted by selecting the desired arm position in relation to the grooved spindle. Each groove represents an angle of 11 degrees.

Separate adjustable valves for latching and closing speed, delayed closing and back check

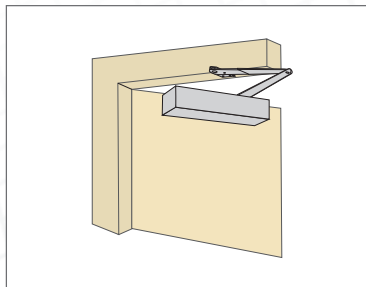
Closing force can be adjusted for different door sizes and weights

Applications:

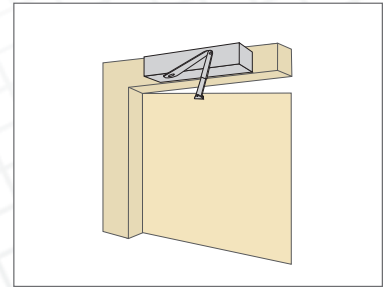
The 8726 is universal and can be fitted as App.1, App. 66 or App. 61



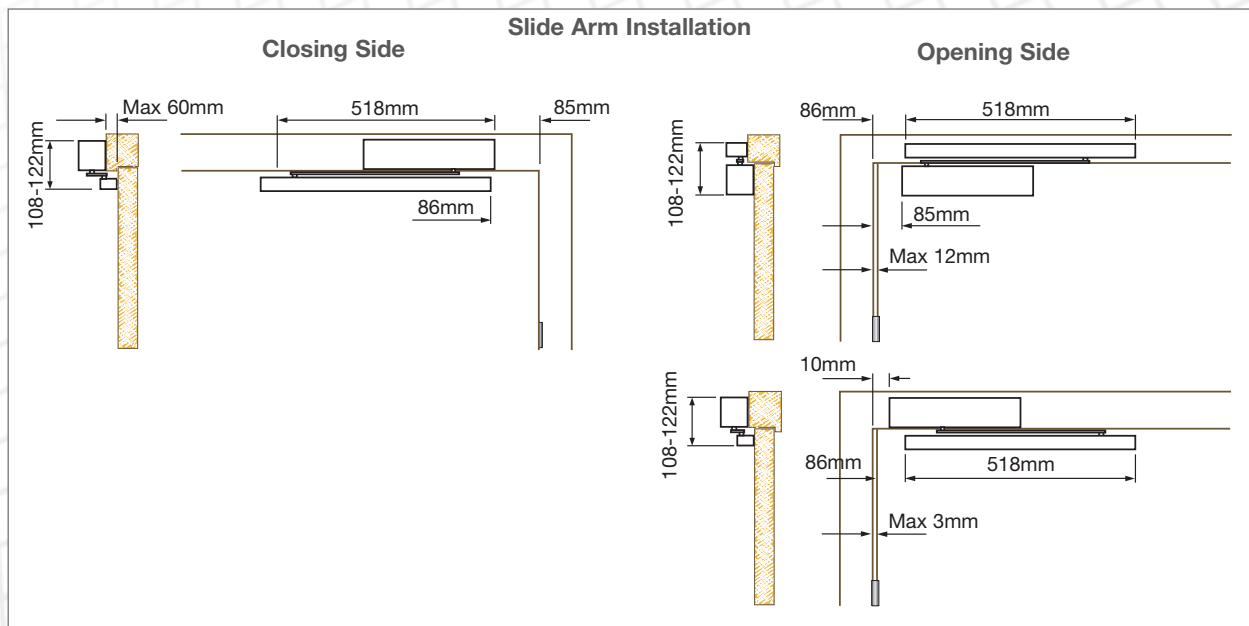
App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door

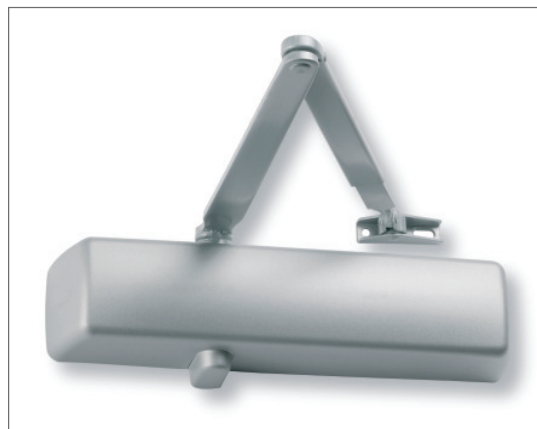


App. 61
Closer transom mounted on 'push' side of door



Heavy Duty with back check

8715

**Application:**

- Strong heavy duty door closer suitable for both interior and exterior doors
- Perfect for doors exposed to conditions of pressure and heavy use - typical applications include schools, supermarkets, offices and other public buildings
- Maximum door weight 100kg, maximum door leaf width 1250mm

Features:

- CE certified - can be used on fire doors
- Adjustable class EN1-5 closing force according to EN 1154
- Maximum opening angle 180°
- Adjustable closing and latching speed
- Adjustable closing force
- Back-check (BC) as a standard feature
- Installation on door frame or door leaf
- Die cast aluminium body manufactured from high performance silicon alloy
- Two pressure relief valves are a standard feature - protects against abuse
- High efficiency 70-80%
- Arm included in the package - no other arm available

Specification:

Reference 8715

Ordering Code Example:

J-8715-SIL

(Boxed - Product Code - Finish)

Finishes:

- SIL - ABS Satin Silver

Standards:

- EN 1154
- EN 1634

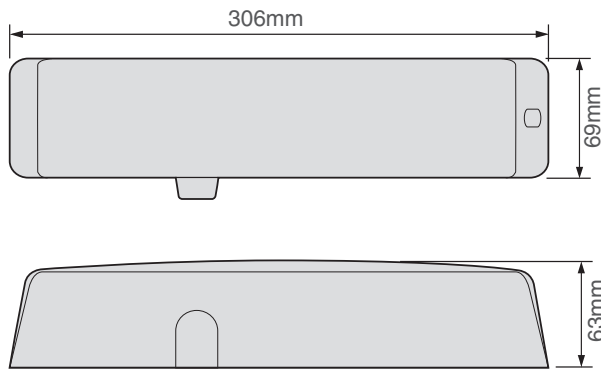
Certificate number: 1162-CPD-0187. Achieves the following classification in Apps.1 & 61

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Heavy Duty with back check

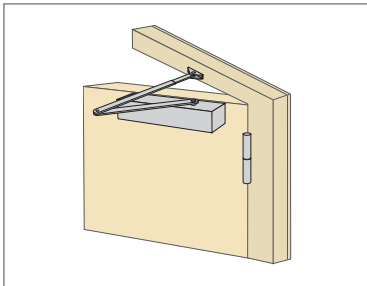
8715

Cover Dimensions

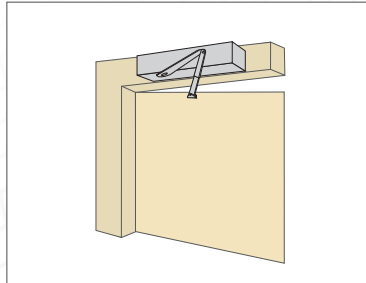


Applications:

The 8715 is universal and can be fitted as App.1 or App. 61



App. 1
Closer fixed to 'pull' side of door



App. 61
Closer transom mounted on 'push' side of door

Heavy Duty with Backcheck

N8825



Curve cover style
(PSF finish shown)



LiNEAR cover style
(SIL finish shown)

Application:

- Suitable for fire resistant doors and other internal doors
- Sizes EN 2-5 wind through adjustable

	Apps. 1 & 61	App. 66
Max. door width	1250mm	1250mm
Max. door mass	100kg	100kg
Max. opening angle	165°	180°

Features:

- Aluminium body, steel armset
- Independent door speed and latch controls
- Adjustable backcheck
- Non-handed for maximum flexibility
- Concealed fixings and adjustment controls
- Curve or Linear cover styles in a choice of finishes
- Adjustable, flatarm arm
- Easy-to-use template and pictorial fitting instructions

Specification:

Reference	N8825-C (Curve cover)
	N8825-L (Linear cover)

Ordering Code Example:

J-N8825-C-SSF

J-N8825-L-PBF

(Boxed - Product Code - Finish)

Finishes:

SIL - Silver



SSF - Satin
Stainless Steel



PSF - Polished
Stainless Steel



PBF - Polished
Brass

	SIL Silver	SSF Satin Stainless Steel	PSF Polished Stainless Steel	PBF Polished Brass
Curve	■	■	■▲	■▲
Linear	■	■	■▲	■▲

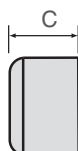
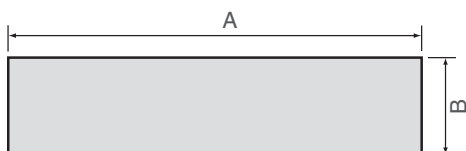
All covers have matching arms.

▲ Work to order.

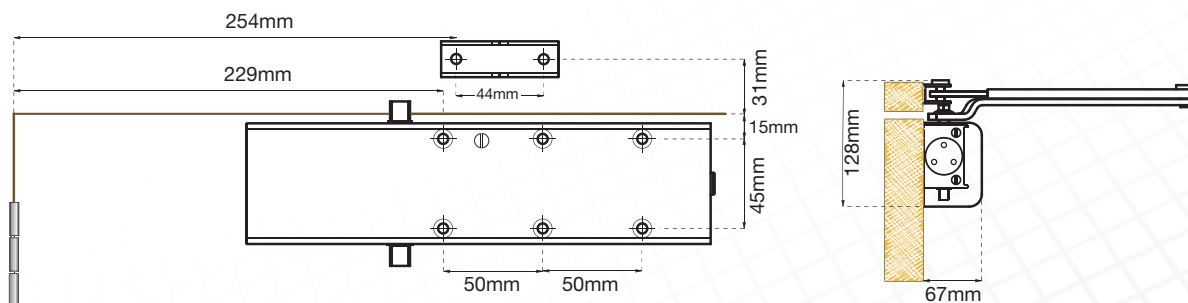
Heavy Duty with Backcheck

N8825

Cover Dimensions

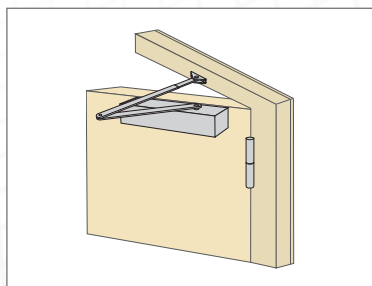


	A	B	C
Curve	302	55	83
Linear	298	55	82

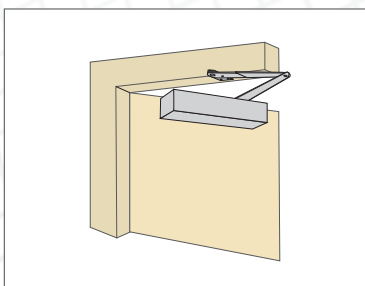


Applications:

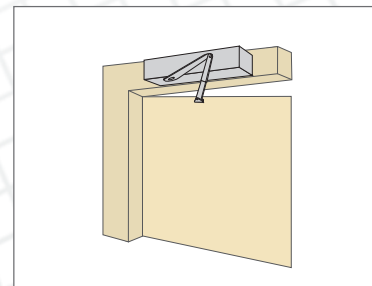
The N8825 is universal and can be fitted as App. 1, App. 66 or App. 61



App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door

Standards:



Certificate number: 1121-CPD-AD0053
(CE mark not valid if door width/mass exceeds values shown)

3rd party tested to BS EN 1154

Achieves the following classification in Apps. 1 & 61

3	8	5/2	1*	1	3
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Achieves the following classification in App. 66

4	8	5/2	1*	1	3
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*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120



Rack & Pinion Door Closer

8735

**Application:**

- Suitable for both interior and exterior doors
- Maximum door weight 100kg, maximum door leaf width 1250mm

Features:

- CE certified
- Cast aluminium body manufactured from high performance silicon alloy
- Very high efficiency
- Separate adjustable closing and latching speed
- Pressure relief valves to protect against abuse
- Non handed, can be installed on either the door or the door frame
- Easily adjustable arm height makes installation simple and quick
- Adjustable spring power from size 3 to 5
- Easy to adjust starting angle of back check, delayed closing and latching speed
- Operating temperature -35°C to +45°C
- Hold-open device 8152 available for use in conjunction with slide arm

Specification:

Reference	8735/199 - Standard Arm
	8735/191 - Hold-open Arm
	8735/194 - Slide Arm

Ordering Code Example:

J-8735/199-SIL

(Boxed - Product Code - Finish)

Finishes:

- SIL - ABS Satin Silver
- SS - Stainless Steel

Standards:

- EN 1154
- EN 1634

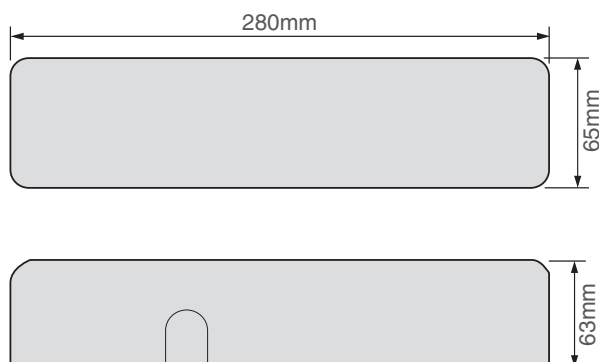
Certificate number: 1162-CPD-0252. Achieves the following classification in App.1 & 61

4	8	5/3	1	1	3
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Heavy Duty with Backcheck

8735

Cover Dimensions



Arm height:

The arm height can be adjusted (by a maximum of 14 mm) by moving the grooved spindle in a vertical direction

Adjustments:

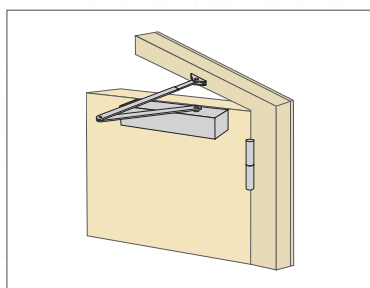
The starting angle for latching speed, back check and delayed closing can be adjusted by selecting the desired arm position in relation to the grooved spindle. It ensures the correct starting angle for back check, particularly important when installed on the closing side

Separate adjustable valves for latching and closing speed, delayed closing and back check

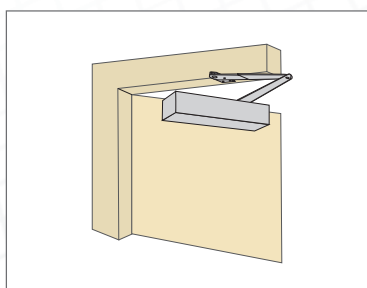
Closing force can be adjusted for different door sizes and weights

Applications:

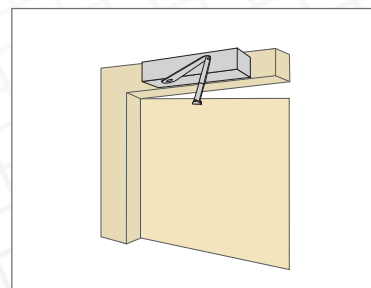
The 8735 is universal and can be fitted as App.1, App. 66 or App. 61



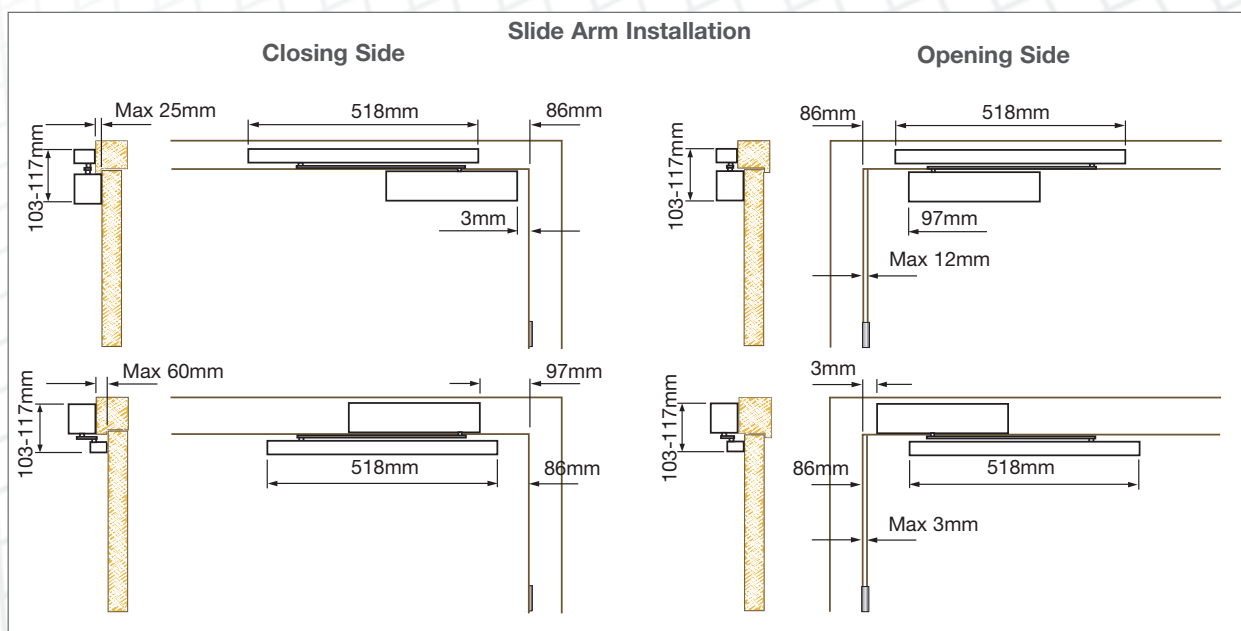
App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door



Medium Duty

N8824/N8824BC



Curve cover style
(SSF finish shown)



LINEAR cover style
(PBF finish shown)



Signature cover style
(SIL finish shown)



SIL - Silver



GLD - Gold

SSF - Satin
Stainless SteelPSF - Polished
Stainless SteelPBF - Polished
Brass**Application:**

- Suitable for fire resistant doors and other internal doors
- Sizes EN 2-4 wind through adjustable (N8824BC)

	Apps. 1 & 61	App. 66
Max. door width	1100mm	1100mm
Max. door mass	80kg	60kg
Max. opening angle	135°	160°

- Size selectable 2-4 (N8824)

Features:

- Aluminium body, steel armset
- Independent door speed and latch controls
- Adjustable backcheck (N8824BC)
- Non-handed for maximum flexibility
- Concealed fixings and adjustment controls
- Curve, Linear or Signature cover styles in a choice of finishes
- Adjustable, flatform arm
- Easy-to-use template and pictorial fitting instructions

Specification:

Reference	N8824/N8824BC-C (Curve cover)
	N8824/N8824BC-L (Linear cover)
	N8824/N8824BC (Signature cover)

Ordering Code Example:

J-N8824-C-SSF

J-N8824BC-L-PBF

J-N8824-SIL

J-N8824BC-SIL

(Boxed - Product Code - Finish)

Finishes:

	SIL Silver	GLD Gold	SSF Satin Stainless Steel	PSF Polished Stainless Steel	PBF Polished Brass
Curve	■	—	■	■	■▲
Linear	■	—	■	■▲	■▲
Signature	■	■	■*	■*	■*

All covers have matching arms.

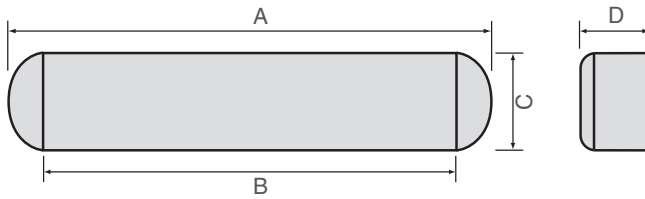
* Note - constructed from mild steel with a stainless steel or polished brass finish.

▲ Work to order.

Medium Duty

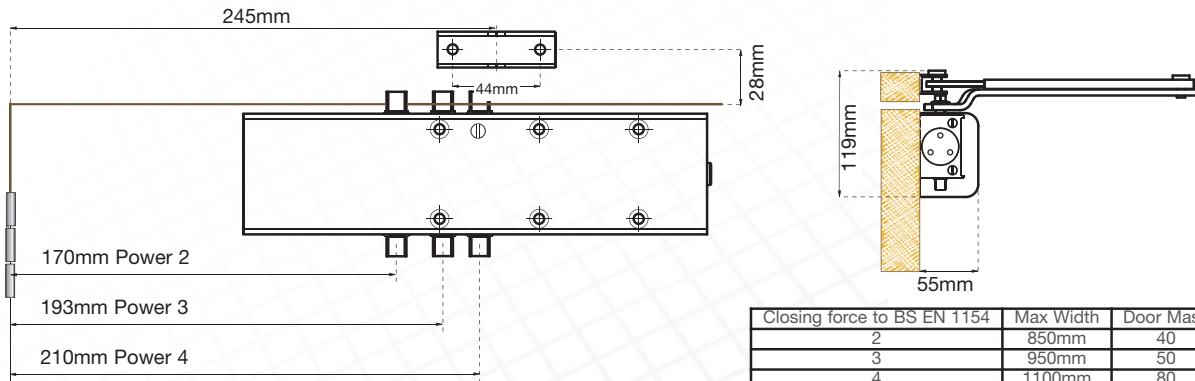
N8824/N8824BC

Cover Dimensions



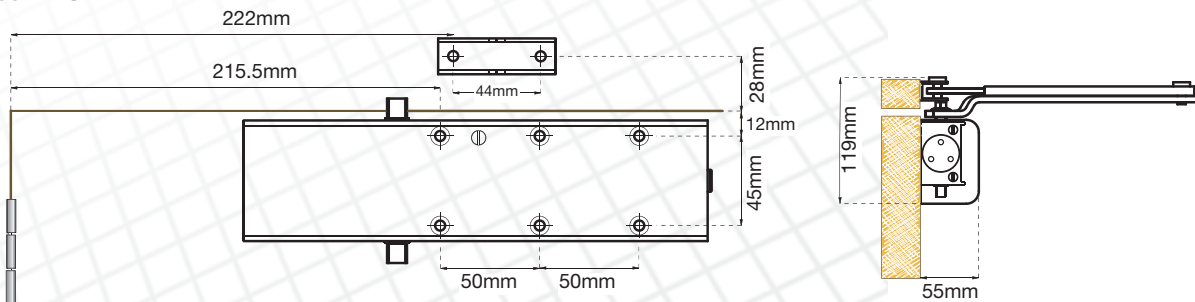
	A	B	C	D
Curve	-	248	49	78
Linear	-	241	49	77
Signature	307	-	55	80

N8824



Closing force to BS EN 1154	Max Width	Door Mass
2	850mm	40
3	950mm	50
4	1100mm	80

N8824BC



Applications:

The N8824BC and N8824 are universal and can be fitted as App.1, App. 66 or App. 61

Standards:

CE N8824BC Certificate number: 1121-CPD-AD0052. (CE mark not valid if door width/mass exceeds values shown)

N8824BC 3rd party tested to BS EN 1154

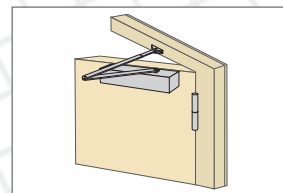
3	8	4/2	1*	1	3
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N8824 3rd party tested to BS EN 1154

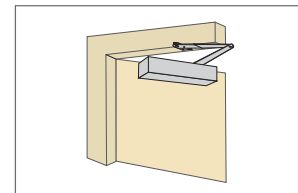
3	8	3	1*	1	3
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*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120

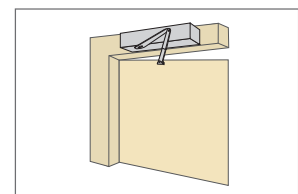
certifire
N8824BC Certificate No. CF410



App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door

Medium Duty CE Marked

N8834

Application:

- Suitable for fire resistant doors and other internal doors
- Sizes EN 3 - 4, template selectable

	Apps. 1 & 61	App. 66
Max. door width	1100mm	950mm
Max. door mass	80kg	60kg
Max. opening angle	180°	130°

Features:

- Independent, fully adjustable hydraulic door speed and latch controls
- Non-handed
- Concealed adjustment controls
- Adjustable platform arm
- Easy-to-use template and pictorial fitting instructions
- Signature cover

Specification:

Reference N8834

Ordering Code Example:

J - N8834-SIL

J - N8834-GLD

(Boxed - Product Code - Finish)

Finishes:

- SIL - Silver
- GLD - Gold

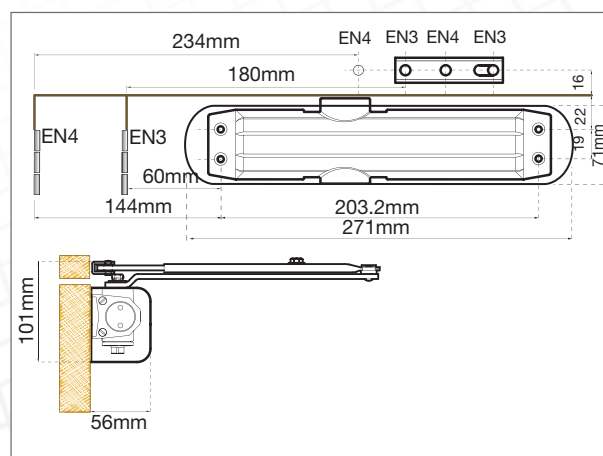
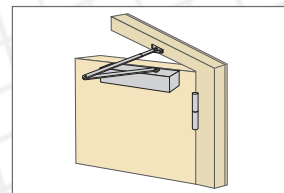
Standards:

Certificate number: 1162-CPD-0132
(CE mark not valid if door width/mass exceeds values shown)

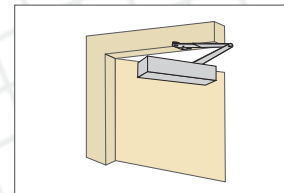
3rd party tested to BS EN 1154

4	8	3/4	1*	1	3
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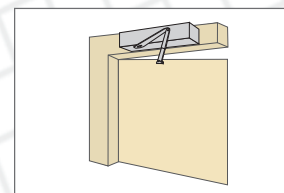
*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120

**Applications:**

App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door

The ideal retro-fit solution

Retro3 & Retro4

Application:

- Use the same fixing dimensions and footprint as the most popular UK door closer designs
- Blends with any application where other traditional door closers have been used or are currently fixed to adjacent doors
- Fixed size EN3 or fixed size EN4
- Retro3 provides EN1154 size 3 when fitted as App. 1 or App. 66

	Retro3	Retro4	
	Apps. 1, 66 & 61	Apps. 1 & 61	App. 66
Size (EN 1154)	3	4	3
Max. door width	950mm	1100mm	950mm
Max. door mass	60kg	80kg	60kg
Max opening angle	180°	180°	180°

Features:

- Square steel cover
- Independent, fully adjustable door speed and latch controls
- Non-handed
- Concealed adjustment controls
- Adjustable platform arm
- Easy-to-use template and pictorial fitting instructions

Specification:

Reference	JRETRO3 JRETRO4
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Ordering Code Example:

J - RETRO3-SIL
(Boxed - Product Code - Finish)

Finishes:

- SE - Silver Enamel

Standards:



Certificate number: 1162-CPD-0223
(CE mark not valid if door width/mass exceeds values shown)

3rd party tested to BS EN 1154

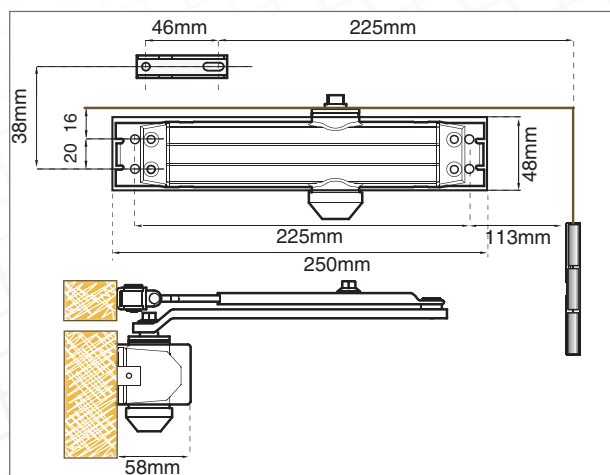
RETRO3

4	8	3	1*	1	3
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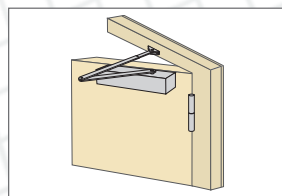
RETRO4

4	8	4	1*	1	3
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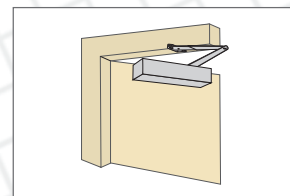
*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120



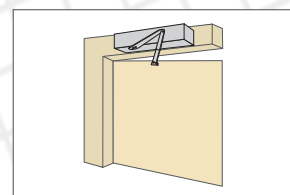
Applications:



App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door



CE Marked

N8803

Application:

- Economical solution for fire doors and other internal doors
- Fixed size EN 3

	Apps. 1 & 61
Max. door width	950mm
Max. door mass	60kg
Max. opening angle	140°

Features:

- Small bodied closer
- Independent, fully adjustable hydraulic door speed and latch controls
- Maximum opening angle - 140°
- Non handed
- Adjustable arm
- Easy-to-use template and pictorial fitting instructions

Specification:

Reference N8803

Ordering Code Example:

J - N8803-SIL

J - N8803-GLD

(Boxed - Product Code - Finish)

Finishes:

- SIL - Silver
- GLD - Gold

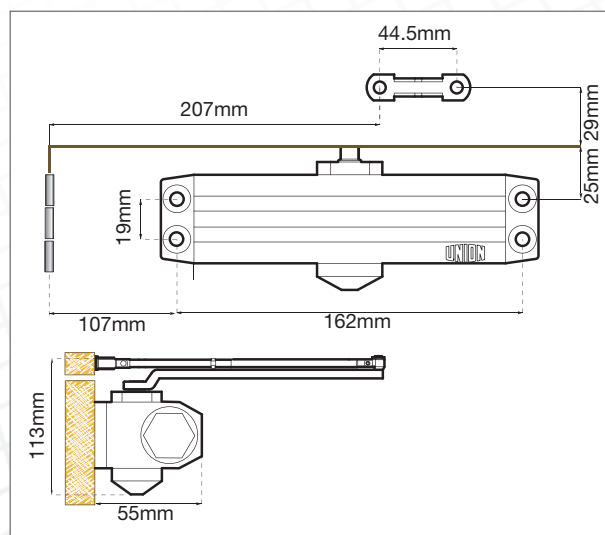
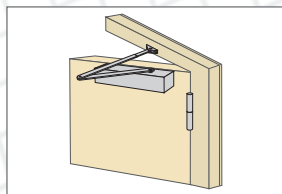
Standards:

Certificate number: 1121-CPD-AD0024
(CE mark not valid if door width/mass exceeds values shown)

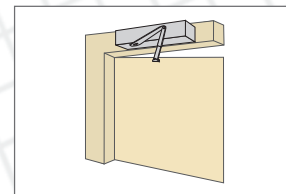
3rd party tested to BS EN 1154

3	8	3	1*	1	3
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*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120

**Applications:**

App. 1
Closer fixed to 'pull' side
of door



App. 61
Closer transom mounted on
'push' side of door

Fixed Size 4

X8573

Application:

- Surface mounted fixed size 4
- Suitable for architectural and commercial applications

Features:

- Fixed size 4
- Fixings for both metal and timber doors
- Non-handed
- Adjustable closing speed from 180° - 15°
- Adjustable latching speed from 15° - 0°
- Backcheck (optional)

Specification:

Reference X8573

Ordering Code Example:

J - 8573-SE

(Boxed - Product Code - Finish)

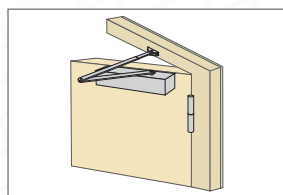
Finishes:

- SE - Silver Enamel
- BE - Bronze Enamel
- GE - Gold Enamel

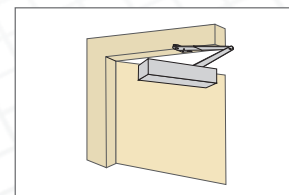
Standards:



Applications:



App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door

- Standard mounting permits door opening to 180°

Fixed Size 3

X8577

Application:

- Surface mounted fixed size 3
- Suitable for residential and medium duty commercial applications

Features:

- Fixed size 3
- Fixings for both metal and timber doors
- Non-handed
- Adjustable closing speed from 180° - 15°
- Adjustable latching speed from 15° - 0°
- Backcheck (optional)

Specification:

Reference X8577

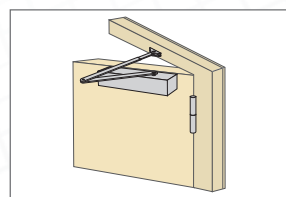
Ordering Code Example:

J - 8577-SE

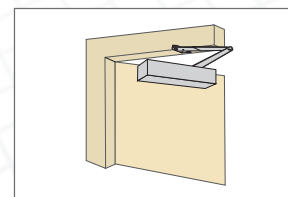
(Boxed - Product Code - Finish)

Finishes:

- SE - Silver Enamel
- BE - Bronze Enamel
- GE - Gold Enamel

Standards:**Applications:**

App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door

- Standard mounting permits door opening to 180°

Size 2/3

8823/8823-WC

Application:

- Surface mounted size 2/3 suitable for residential and light duty commercial applications

Features:

- Spring size 2/3
- Screw adjustable arm
- Speed controls
- Universal fixing
- Non hold open

Specification:

Reference	N8823
	N8823-WC (with cover)

Ordering Code Example:

J - 8823-SIL

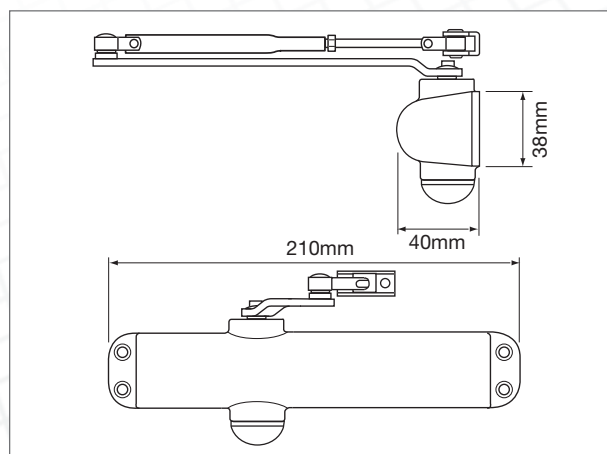
J - 8823-WC-GLD

(Boxed - Product Code - Finish)

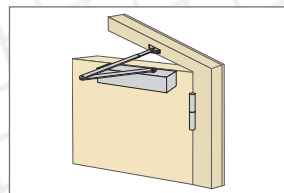
Finishes:

- SIL - Silver
- GLD - Gold

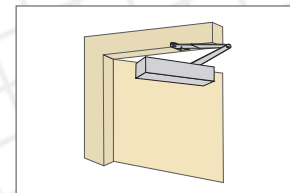
Standards:



Applications:

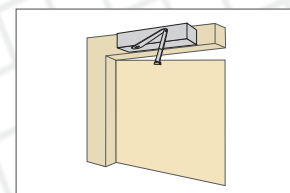


App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door

- Standard mounting position permits door opening to 120° (180° size 2)



App. 61
Closer transom mounted on 'push' side of door

Fully Concealed

803/804

Application:

- Suitable for residential and medium duty commercial applications
- Sizes EN 3 - 4

Features:

- Maximum door mass 80kg
- Suitable for both metal and timber doors
- Can be mounted in top rail of a door or head frame (transom)
- Non-handed
- Adjustable closing speed from 150°-15°
- Adjustable latching speed from 15°-0°
- Pressure relief valve
- Optional adjustable hold open
- Standard mounting permits door opening to 165°

Specification:

Reference 803 - Size 3 maximum door width 950mm
804 - Size 4 maximum door width 1100mm

Ordering Code Example:

J - N803

(Boxed - Product Code - Finish)

Standards:

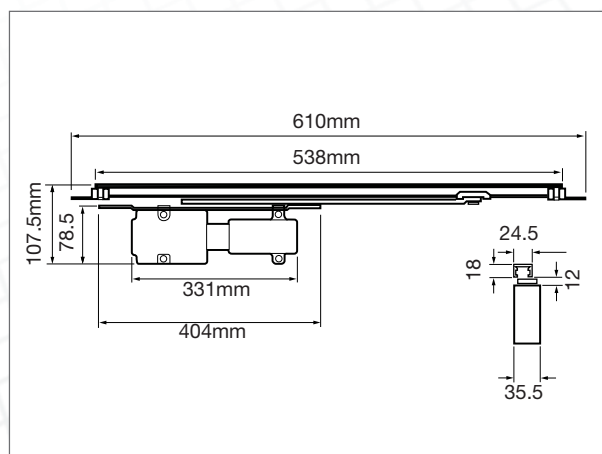
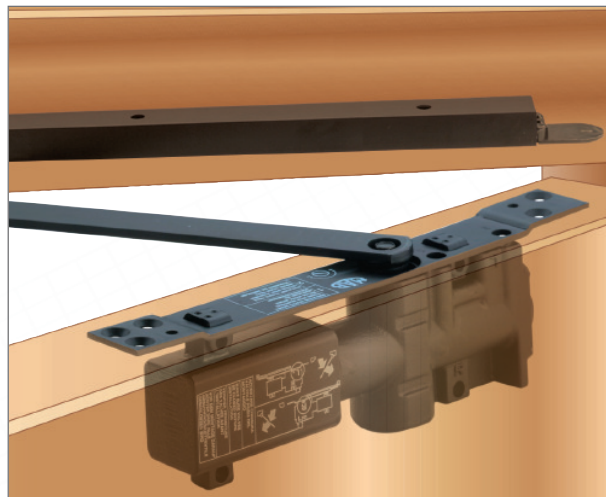
- Size EN 3-4 have CE conformity
- Suitable for fire doors

803 - 3rd party tested to BS EN 1154

3	8	3	1	1	4
---	---	---	---	---	---

804 - 3rd party tested to BS EN 1154

3	8	4	1	1	4
---	---	---	---	---	---



Fully Concealed Door Closer

X8580

Application:

- Size 3
- Suitable for residential and medium duty commercial applications

Features:

- Fixed size 3
- Fixings for both metal and timber doors
- Reversible for both left and right handed doors
- Adjustable closing speed
- Adjustable latching speed
- Compact design - 31mm thickness
- Cycle tested to 500,000 cycles
- Available with hold open

Specification:

Reference X8580

Ordering Code Example:

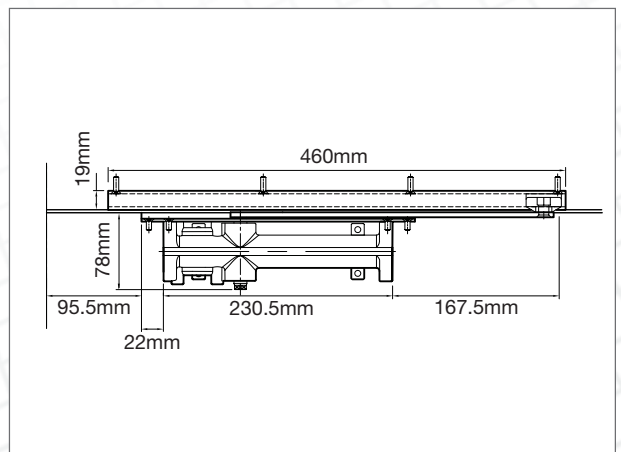
J - X8580-SE
J - X8580-SE-HO
J - X8580-SE-EN
J - X8580-SE-EN-HO

(Boxed - Product Code - Finish- Opening)

Finishes:

- SE - Silver Enamel

Standards:



Application:

- Closer installed in top rail of door
- Fully concealed mounting permits door opening to 180°

Hold Open and Swing Free

N8899

8B Electro Magnetic Door Closers



Curve cover style
(SSF finish shown)



LiNEAR cover style
(PSB finish shown)

Application:

- Optimum solution for fire doors on accessible and circulation routes in hospitals, commercial and public buildings
- Electro magnetic functions interface with the fire alarm system. Upon activation of the system the doors resume their self-closing function
- Regular arm and parallel arm *in one unit*
- Hold open and swing free *in one unit*
- Requires 24V DC power supply
- EN size 4 in standard installation and EN size 3 in parallel arm installation

	Apps. 1 & 61	App. 66
Max. door width	1100mm	950mm
Max. door mass	80kg	60kg
Hold open angle	Any selected angle between 75° and 180°	

Features:

- Aluminium body, steel armset
- Independent door speed and latch controls
- Non-handed for maximum flexibility
- Concealed fixings and adjustment controls
- Curve or Linear style cover in a choice of finishes
- Adjustable platform arm
- Easy to use template and pictorial fitting instructions

Specification:

Reference	N8899-4-C (Curve cover)
	N8899-4-L (Linear cover)

Ordering Code Example:

J - N8899-4-C-SSF

J - N8899-4-L-PBF

(Boxed - Product Code - Finish)

Finishes:



SIL - Silver



SSF - Satin
Stainless Finish



PSF - Polished
Stainless Steel Finish



PBF - Polished Brass
Finish

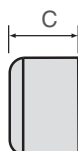
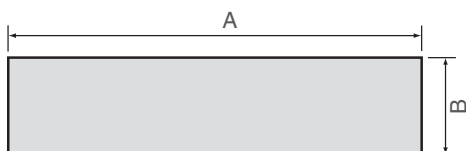
	SIL* Silver	SSF* Satin Stainless Steel	PSF* Polished Stainless Steel	PBF* Polished Brass	SSB Satin Stainless Steel with black arm/loop	PSB Polished Stainless Steel with black arm/loop	PBB Polished Brass Finish with black arm/loop
Curve	■	■	■	■	■	■	■
Linear	■	■	■	■	■	■	■

* All covers have matching arms, junction box, arm and loop.

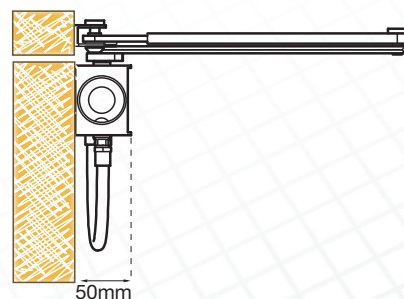
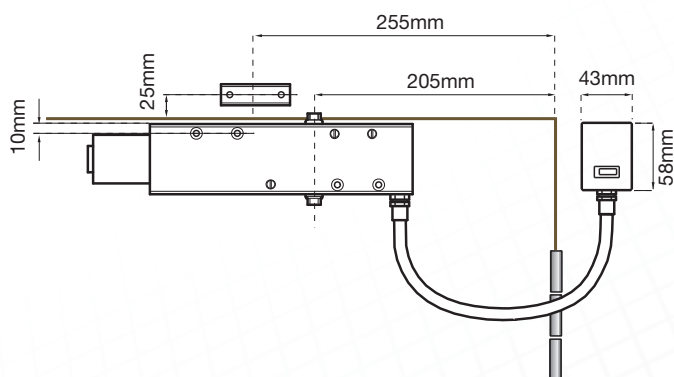
Hold Open and Swing Free

N8899

Cover Dimensions

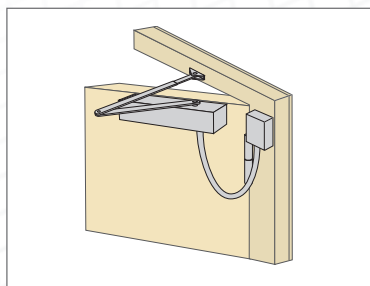


	A	B	C
Curve	302	55	83
Linear	298	55	82

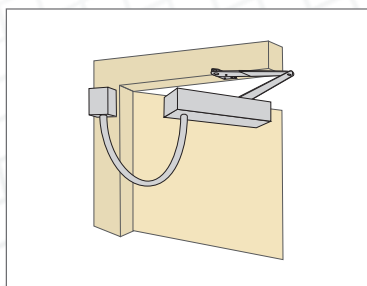


Applications:

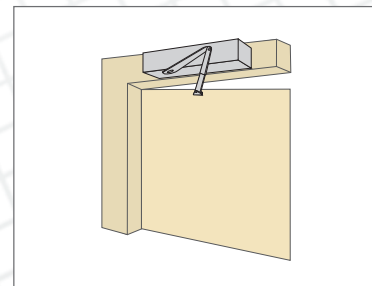
The N8899 is universal and can be fitted as App. 1, App. 66 or App. 61



App. 1
Closer fixed to 'pull' side of door



App. 66
Closer fixed to 'push' side of door



App. 61
Closer transom mounted on 'push' side of door

Standards:



Certificate number: 1162-CPD-0132
(CE mark not valid if door width/mass exceeds values shown)

3rd party tested to BS EN 1155

Achieves the following classification in Apps. 1 & 61

3	8	4	1*	1	3
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Achieves the following classification in App. 66

3	8	3	1*	1	3
---	---	---	----	---	---

*Included in fire tests to BS EN 1634-1 with assessment for use on timber fire doors with intumescent protection up to FD120



Double Action Floor Spring

X8300

Application:

- Mounted within the floor
- For both timber and metal doors
- Strengths EN2, EN3 or EN4

	EN2	EN3	EN4
Max. door width	800mm	1000mm	1200mm
Max. door mass	80kg	100kg	120kg
Max. opening angle	130°		
Hold-open	90°, 105° (optional)		

- Double Action (opening in both directions)

Features:

- Adjustable loose box suitable for concrete floors
- Fully reversible for both left or right handed doors
- Adjustable closing and latching speeds
- Hold open

Fittings:

- Iron (adjustable) Door Straps and Top Centres
- Double action variant suitable for use as single action

Specification:

Reference X8300

Ordering Code Example:

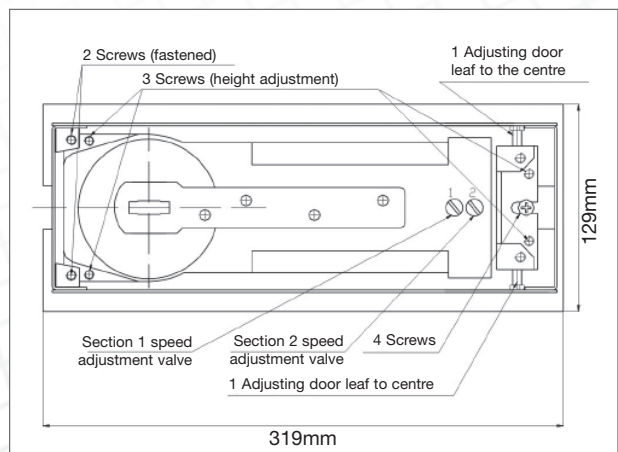
J - X8300-SS

(Boxed - Product Code - Finish)

Cove Plate Finishes:

- SS - Satin Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass

Standards:



Iron fittings (adjustable)

Double Action Floor Spring

X8180

Application:

- Mounted within the floor
- For both timber and metal doors
- Strengths EN2, EN3 or EN4

	EN2	EN3	EN4
Max. door width	800mm	1000mm	1200mm
Max. door mass	80kg	100kg	120kg
Max. opening angle	120°		
Hold-open	90° (optional)		

- Double Action (opening in both directions)

Features:

- Adjustable loose box suitable for concrete floors
- Fully reversible for both left or right handed doors
- Adjustable closing and latching speeds
- 90° Hold open

Fittings:

- Iron (adjustable) Door Straps and Top Centres
- Double action variant suitable for use as single action

Specification:

Reference X8180

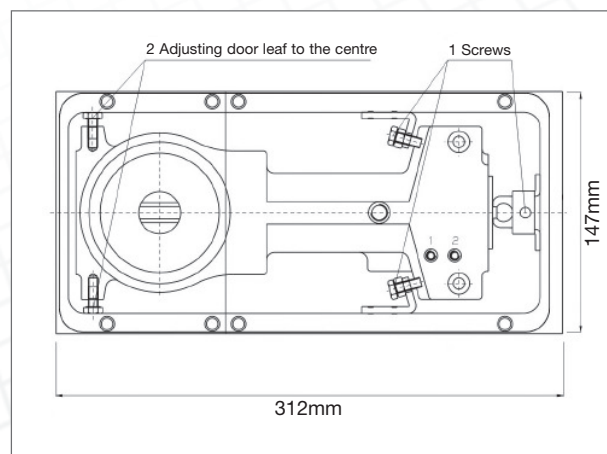
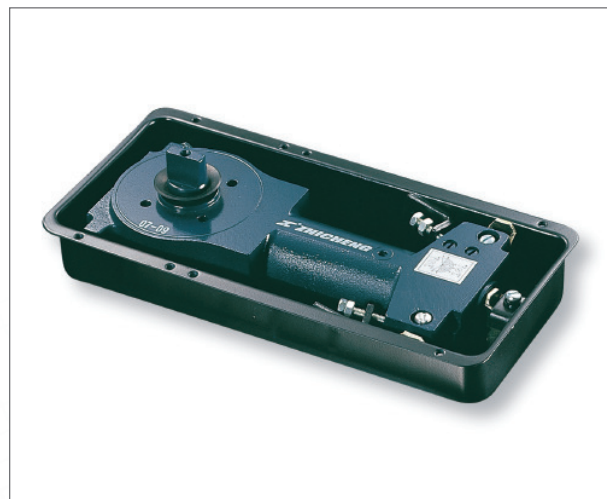
Ordering Code Example:

J - X8180-SS
(Boxed - Product Code - Finish)

Finishes:

- SS - Satin Stainless Steel
- PS - Polished Stainless Steel
- PB - Polished Brass

Standards:



Iron fittings (adjustable)

Door Co-ordinator

X8817

Application:

- For double leaf swing doors fitted with door closers where it is necessary to ensure the correct sequence of closing each leaf - eg. doors with rebated meeting stiles

Features:

- Suitable for use with either timber or metal doors

Specification:

Reference	X8817
Size	280mm - Standard 250mm - Optional
Material	Stainless Steel

**Ordering Code Example:**

J - X8817-SS
(Boxed - Product Code - Finish)

Finishes:

- SIL - Silver
- GLD - Gold

Standards: